

Title (en)

WAVELENGTH SENSING LIGHTING SYSTEM AND ASSOCIATED METHODS

Title (de)

BELEUCHTUNGSSYSTEM MIT WELLENLÄNGENERFASSUNG UND ZUGEHÖRIGE VERFAHREN

Title (fr)

SYSTÈME D'ÉCLAIRAGE À DÉTECTION DE LONGUEUR D'ONDE ET PROCÉDÉS ASSOCIÉS

Publication

EP 2783549 A1 20141001 (EN)

Application

EP 12805833 A 20121121

Priority

- US 201113300930 A 20111121
- US 2012066203 W 20121121

Abstract (en)

[origin: US2013129349A1] A wavelength sensing lighting system may include a light source, a sensor and a controller. One or more light sources and sensors may be included in an array. The light source may emit an illuminating light and the sensor may sense an environmental light. The illuminating light may include data light. The lighting system may include a plurality of nodes connected in a network. The nodes may communicate by emitting and receiving the data light, which may be analyzed by the controller. The light source and the sensor may be provided by a light emitting semiconductor device that is capable of emitting illuminating light and receiving environmental light. A conversion material may convert the wavelength of a source light into a converted light. The conversion material may increase the wavelength range of light emittable and detectable by the lighting system.

IPC 8 full level

H05B 44/00 (2022.01); **H04B 10/07** (2013.01); **H04B 10/116** (2013.01); **H05B 37/02** (2006.01)

CPC (source: EP KR US)

H04B 10/07 (2013.01 - US); **H04B 10/116** (2013.01 - EP US); **H04B 10/43** (2013.01 - US); **H04N 23/56** (2023.01 - US); **H05B 45/10** (2020.01 - EP KR US); **H05B 45/22** (2020.01 - EP US); **H05B 45/24** (2020.01 - US); **H05B 47/11** (2020.01 - EP KR US); **H05B 47/115** (2020.01 - EP KR US); **H05B 47/175** (2020.01 - KR); **H05B 47/195** (2020.01 - EP KR US); **F21V 9/08** (2013.01 - US); **F21Y 2115/10** (2016.07 - US); **Y02B 20/40** (2013.01 - EP)

Citation (search report)

See references of WO 2013081930A1

Cited by

US11593678B2; WO2023156034A1; WO2018065247A1

Designated contracting state (EPC)

AL AT BE BG CH CY CZ DE DK EE ES FI FR GB GR HR HU IE IS IT LI LT LU LV MC MK MT NL NO PL PT RO RS SE SI SK SM TR

DOCDB simple family (publication)

US 2013129349 A1 20130523; **US 8515289 B2 20130820**; AU 2012346231 A1 20140619; AU 2012346231 B2 20151217; CA 2856409 A1 20130606; CA 2856409 C 20220712; CN 104115563 A 20141022; CN 104115563 B 20160817; DK 2783549 T3 20171211; EP 2783549 A1 20141001; EP 2783549 B1 20171115; EP 3294042 A1 20180314; JP 2015504581 A 20150212; JP 6031528 B2 20161124; KR 102074003 B1 20200205; KR 20140105476 A 20140901; US 10212781 B2 20190219; US 10462874 B2 20191029; US 2013294764 A1 20131107; US 2015022097 A1 20150122; US 2015296587 A1 20151015; US 2016183343 A1 20160623; US 2017142804 A1 20170518; US 2018077769 A1 20180315; US 2019182923 A1 20190613; US 2019350062 A9 20191114; US 8818202 B2 20140826; US 9125275 B2 20150901; US 9307608 B2 20160405; US 9578710 B2 20170221; US 9839092 B2 20171205; WO 2013081930 A1 20130606

DOCDB simple family (application)

US 201113300930 A 20111121; AU 2012346231 A 20121121; CA 2856409 A 20121121; CN 201280057281 A 20121121; DK 12805833 T 20121121; EP 12805833 A 20121121; EP 17195516 A 20121121; JP 2014542583 A 20121121; KR 20147016543 A 20121121; US 2012066203 W 20121121; US 201313901169 A 20130523; US 201414333200 A 20140716; US 201514748691 A 20150624; US 201615054807 A 20160226; US 201715421469 A 20170201; US 201715803174 A 20171103; US 201916274690 A 20190213